

DOBROWOL'SKAYA-ZAYTSEVA, Ye.A. (Moskva, G-99, ul.Chaykovskogo, 7/1, kv.4)

Polish periodical on morphology, "Folia Morphologica" (organ of the Polish Anatomical Society). Arkh.anat. gist.i embr. 40 no.4:125-128 Ap '61. (MIRA 14:5)

1. Kafedra anatomii cheloveka (zav. - chlen-korrespondent AMN SSSR prof. D.A.Zhdanov) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(POLAND--ANATOMICAL SOCIETIES--PERIODICALS)

DOBROVOL'SKAYA-ZAYTSEVA, Ye.A. (Moskva, G-99, ul. Chaykovskogo, 7/1, kv. 4)

Polish morphology journal "Folia morphologica" (organ of the
Polish Anatomical Society) for 1960. Arkh. anat. gist. i embr.
41 no. 12:99-103 D '61. (MIRA 15:3)

1. Kafedra anatomii cheloveka (zav. - chlen-korrespondent
AMN SSSR prof. D.A. Zhdanov) I Moskovskogo ordena Lenina
meditsinskogo instituta, imeni I.M. Sechenova.
(MORPHOLOGY—PERIODICALS)

DOEROVOL'SKAYA-ZAYTSEVA, Ye.A. (Moskva, G-90, ul. Chaykovskogo, 7/1,
kv.4)

Polish morphology periodical "Folia Morphologica" (organ of the
Polish Anatomical Society) in 1961. Arkh.anat.,gist.i embr. 44
no.1:114-117 Ja '63. (MIRA 16:5)

1. Kafedra normal'noy anatomii (sav. - chlen-korrespondent AMN
SSSR prof. D.A. Zhdanov) I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M. Sechenova.
(POLAND—MORPHOLOGY—PERIODICALS)

DOBROVOL'SKAYA-ZAYTSEVA, Ye.A.

Reviews and bibliography. Arkh. anat., gist. i embr. 49 no.7:115-119
Jl '65. (MIRA 18:10)

1. Kafedra anatomii cheloveka (zav. - chlen-korrespondent AMN SSSR
prof. D.A.Zhdanov) 1-go Moskovskogo ordena Lenina meditsinskogo
instituta imeni Sechenova.

DOBROVOL'SKIŠ, P.

Work organization should have scientific basis. Sov.profsoiuzy
19 no.5:6-8 Mr '63. (MIRA 16:2)

1. Predsedatel' Litovskogo respublikanskogo soveta professional'-
nykh soyuzov, Vil'nyus.
(Lithuania--Labor and laboring classes)
(Lithuania--Industrial management)

DOBROVOL'SKIS, P., delegat XIII s"yezda professional'nykh soyuzov

When the construction begins. Sov. profsoiuzy 19 no.19:
22-24 0 '63.

(MIRA 16:11)

1. Predsedatel' Litovskogo respublikanskogo soveta professional'-
nykh soyuzov, Vil'nyus.

DOBROVOL'SKIY A.A.

SOV-127-58-9-12/20

AUTHORS: Ogloblin, D.N., Professor, Bespalyy, N.P., Candidate of Technical Sciences and Dobrovolskiy, A.A., Engineer

TITLE: Surveying High Precision Works During the Sinking of Vertical Shafts by Counter Faces (Marksheyderskiye raboty vysokoy tochnosti pri prokhodke vstrechnymi zaboyami vertikal'nogo stvola)

PERIODICAL: Gornyy zhurnal, 1958, Nr 9, pp 65-69 (USSR)

ABSTRACT: The authors describe complicated (both surface and underground) surveying operations during the opening of lower levels in the Tyrny-Auz deposits. It was decided to open up three galleries, at 2,609 m, 2,312 m, and 2,004 m, all three connected by a vertical dead end shaft sunk simultaneously from all three levels. To avoid deviations in the direction of the counter faces, a triangulation net was built up on the surface and polygons were established underground in accordance with polygonometry. Taking into consideration possible triangulation and polygonometry errors, it was found that the possible maximal deviation of the counter faces could be 213 mm. However, when the counter faces of the 2,004 and 2,312 m levels met, the error was 310 mm. The difference between the 213 and 310 mm was caused by a deviation of the plumb under the

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SOV-127-58-9-12/20

Surveying High Precision Works During the Sinking of Vertical Shafts by
Counter Faces

influence of gravity attraction of the mountain massif and
by an error in determining the center of the vertical shaft.
A detailed description of the method of calculations is given.
There are 3 diagrams and 2 Soviet references.

ASSOCIATION: Donetskiy industrial'nyy institut (The Donets Industrial In-
stitute)
Tyrny-Auzskiy kombinat (The Tyrny-Auz Combine)

1. Mining engineering--USSR 2. Mines--Construction--Analysis

Card 2/2

DOBROVOL'SKIY, A.A., red.; MORGUNOVA, G.P., vedushchiy red.; POLOSINA,
A.S., tekhn. red.

[Manual of standards for the maintenance and repair of thermal
cracking units.] Spravochnik tipovykh norm na remont ustanovok
termicheskogo krekinga. Moskva, Gos.nauchno-tekhn.izd-vo neft.
i gorno-toplivnoi lit-ry, 1959. 111 p. (MIRA 13:3)

1. Moscow. Nauchno-issledovatel'skiy institut truda. Tsentral'noye
byuro promyshlennykh normativov po trudu.
(Cracking process--Equipment and supplies)

DOBROVOL'SKIY, A. A.

"The Biological Activity of the Ovaries of Pregnant Rats (Homotransplantation of Ovaries)." Cand Med Sci, Inst of Obstetrics and Gynecology, Acad Med Sci USSR, Leningrad, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

DANILENKO, Iosif Abramovich; PEREVOZINA, Kseniya Aleksandrovna,
kand.sel'khoz.nauk; DOBROVOL'SKIY, A.A., red.; GULENKO, A.I.,
tekh. red.

[Silage and its use] Silos i ego ispol'zovanie. Kiev, Gos-
sel'khozizdat USSR, 1962. 214 p. (MIRA 15:9)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyay-
stvennykh nauk imeni V.I.Lenina i Ukrainskoy akademii sel'sko-
khozyaystvennykh nauk (for Danilenko).
(Ensilage)

GINETSINSKAYA, T.A.; DOBROVOL'SKIY, A.A.

Glycogen and fat in different phases of the life cycle of
trematodes. Part 2: Biological role of glycogen and fat. Vest.
LGU 18 no.3:23-33 '63. (MIRA 16:2)
(TREMATODA) (GLYCOGEN) (FAT)

GINETSINSKAYA, T.A.; DOBROVOL'SKIY, A.A.

New method for discovering the sensilla of trematoda larvae and
the role of these formations in taxonomy. Dokl. AN SSSR 151 no.2:
460-463 J1 '63. (MIRA 16:7)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
Predstavleno akademikom K.I.Skryabinym.
(Larvae--Worms) (Trematoda)

GINETSINSKAYA, T.A.; DOBROVOL'SKIY, A.A.

Trematode larvae from freshwater mollusks of the Volga Delta,
Trudy Astr. zap. no.6:45-89 '62. (MIRA 16:7)

(Volga Delta--Trematoda)
(Volga Delta--Parasites--Mollusks)

GINETSINSKAYA, T. A.; DOBROVOLSKIY, A. A.

"Eine analyse des Stoffwechsels bei den Trematodenlarven in der Abhängigkeit von ihrer Lokalisation im Organismus der Wirte."

report submitted for 1st Intl Cong, Parasitology, Rome, 21-26 Sep 1964.

Leningrad State Univ, Dept of Zoology of Invertebrates.

DOBROVOL'SKIY, A.

Aerial phototopography; a text for military topographical schools. Izd. 2., sanovo
perer. Moskva, Gos. voen. izd-vo Narkomata obrony Soiuza SSR, 1939 502 p.

DOBROVOL'SKIY, A. and ALEXANDROV, S.

"Aerial Topography", Gosvoenizdat, State Military Publishing House, M., 1945.

GINETSINSKAYA, T.A.; DOBROVOL'SKIY, A.A.

Trematode larvae in freshwater mollusks of the Volga Delta. Report
No.2. Echinostome cercariae (fam. Echinostomatidae). Trudy Astr. zap.
no.9:64-104 '64. (MIRA 18:10)

DOBROVOL'SKII, A.D.

DOBROVOL'SKII, A. D. Plavaniia F. P. Litke, pod red. N. N. Zubova. Moskva, Geografiz, 1948. 77 p. (Russkie puteshestvenniki) DLC: G226.L83D6

SO: LC, Soviet Geography, Part I, 1951, Uncl.

DOBROVOL'SKII, A.D.

DOBROVOL'SKII, A. D. Admiral S. O. Makarov -- puteshestvennik i okeanograf; k stoletiu so dnia rozhedeniia. Moskva, Geografiz, 1948. 109 p. (Russkie puteshestvenniki)
DLC: Unclass.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

1. DOBROVEL'SKIY, A. D.

2. USSR (600)

"Isothermal Charts of the Northern Part of the Pacific Ocean" Trudy
instituta okeanologii AN USSR. Volume II, 1948 (8-13)

9. Meteorologiya I Gidrologiya, No. 3, 1949.
Report U-2551, 30 Oct. 52

DOBROVOL'SKIY, A. D.

Dobrovol'skiy, A. D. - "Maps of the surface currents of the northern portion of the Pacific Ocean", Trudy In-ta okeanologii (Akad. nauk SSSR), Vol. 111, 1949, p. 66-73, - Bibliog: p. 73.

SO: U-4110, 17 July 53, (Letopis, 'Zhurnal 'nykh Statey, No. 19, 1949).

DOBROVOL'SKIY, A.D.

Position of zero isobaric surface for dynamic computations in the
Northern Pacific Ocean. Trudy Inst.ocean. 4:3-26 '49. (MLRA 9:3)
(Pacific Ocean)

BOGOROV, V.G., laureat Stalinskoy premii, professor; DOBROVOL'SKIY, A.D.,
doktor geograficheskikh nauk, professor, redaktor; KAZAKOVA, V.V.,
tekhnicheskiy redaktor.

[The ocean] Okean. Moskva, Voennoe izd-vo Ministerstva oborony
Soiuz SSR. 1955. 139 p. (MIRA 8:4)
(Ocean)

AID P - 3194

Subject : USSR/Meteorology
Card 1/1 Pub. 71-a - 21/23
Author : Dobrovolskiy, A. D.
Title : Anniversary of Nikolay N. Zubov
Periodical : Met. i. gidr., 5, 67-68, S/O 1955
Abstract : The article reports on the celebration of the 70th anniversary of N. N. Zubov, Soviet scientist, famous oceanologist and explorer of the Arctic region. Books written by Zubov are listed.
Institution : None
Submitted : No date

DORROVOL'SKIY, A.D.

~~.....~~
Nikolai Nikolaevich Zubov. Izv. AN SSSR. Ser. geog. no. 5:95-96
S-0 '55. (MIRA 9:1)
(Zubov, Nikolai Nikolaevich, 1885-)

CHIGIRIN, Nikolay Ivanovich; DOBROVOL'SKIY, A.D., professor, doktor geograficheskikh nauk, otvetstvennyy redaktor; ASTAF'YEVA, G.A., tekhnicheskiy redaktor

[Collection of nomograms of working out oceanographic data] Atlas nomogramm dlia obrabotki okeanograficheskikh dannykh. Moskva, Izd-vo Akademii nauk SSSR, 1956. 20 l. - - - [Explanatory text]
Poiashnitel'nyi tekst. 1956. 34 p. (MLRA 9:11)
(Nomography (Mathematics))
(Oceanography)

DOBROVOL'SKIY, A.D.

IU.M. Shokal'skii as an oceanographer. Izv. AN SSSR Ser. geog.
no.2:120-123 Mar-Apr '57. (MIRA 10:12)
(Shokal'skii, Iulii Mikhailovich, 1856-1940)

Dobrov'skiy, A.D.
BOGOROV, V.G.; DOBROVOI'SKIY, A.D.

Oceanographic research in the Chinese People's Republic. Izv.
AN SSSR Ser. geog. no.2:137-142 Mr-Apr '57. (MIRA 10:12)
(China--Oceanography)

DOBROVOL'SKIY, A.D.
SAVARENSKIY, Ye.F., doktor fiz.-mat. nauk; TISHCHENKO, V.G.; SVYATKOVSKIY,
A.Ye.; ~~DOBROVOL'SKIY, A.D.~~; ZHIVAGO, A.V.; GUROV, K.P., red. izd-
va; POLESITSKAYA, S.M., tekhn. red.

[Tsunamis of November 4-5, 1952] Tsunami 4-5 noiabria 1952 g.
Moskva, Izd-vo Akad. nauk SSSR, 1958, 60 p. (Akademiya nauk
SSSR, Sovet po seismologii, Biulleten' no.4). (MIRA 11:6)
(Pacific Ocean—Tidal waves)

DOBROVOL'SKIY, A.D.

PHASE I BOOK EXPLOITATION

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Akademiya nauk SSSR. Okeanograficheskaya komissiya

Okeanologicheskiye issledovaniya severo-zapadnoy chasti Tikhogo Okeana
(Oceanographic Research of the Northwestern Part of the Pacific
Ocean) Moscow, Izd-vo AN SSSR, 1958. 148 p. (Series: Its:
Trudy, t. 2) 1,600 copies printed.

Resp. Ed.: Zenkevich, L.A., Corresponding Member, USSR Academy of
Sciences; Ed. of Publishing House: Reznichenko, O.G.; Tech. Ed.:
Polyakova, T.V.

PURPOSE: The collection of articles is intended for oceanographers
and naval personnel, and also for piscatologists.

COVERAGE: This collection of articles reports the results of obser-
vations made in the Pacific by the Institute of Oceanology of the
Academy of Sciences, USSR. In 1949, the Institute launched a
systematic five-year program of scientific exploration of certain
hydrographic peculiarities of the Soviet Pacific area. The

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Océanographic Research (Cont.)

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operations were carried out as a "Complex Oceanographic Expedition," using the motorboat Vityaz' as its base. The Expedition worked in collaboration with the Hydrographic Institute of the Soviet Navy (VMS), the Pacific Institute of Piscatology and Oceanography, and some 40 other institutes of the Academy of Sciences. Between 1949 and 1954, 18 trips were made, covering about 130,000 miles. Among the subjects of direct concern were: meteorology, hydrology, oceanography, hydrochemistry, sedimentation, geography of the littoral, geology and contours of the sea bottom, fauna, plankton, microbiology, and gravimetry. Twenty-eight authors contributed to the collection which consists of 27 articles. There are: 6 gables, 23 diagrams, 3 illustrations (photographs of the littoral), 4 maps. There are no references.

TABLE OF CONTENTS:

Kort, V.G. Explorations of the Soviet Far Eastern Seas and Adjacent Pacific Ocean Areas, Carried Out from 1949-54 by the Institute of Oceanology of the Academy of Sciences, USSR

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Card 2/14⁴

Oceanographic Research (Cont.)

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This introductory article lists discoveries made by the Complex Expedition of the Institute of Oceanology and discusses each subject of interest separately. The measurement of currents was attempted up to the depth of 4,600 meters. A general structural similarity was established between the conditions in the Bering Sea and those in the adjacent Pacific. It was found that warm currents mix with cold currents from the North approximately around the area between Moneron Island and Sakhalin Island. The temperature of water in the Bering Straits was found to be much warmer than expected and no minus temperatures were found to occur in any layer at any depth. Furthermore, water of the Bering Sea showed a high percentage of biogenic elements.

Badigin, K.S. Main Objectives of the Institute of Oceanology in Exploring Far Eastern Seas

13

The article points out that exploration programs and navigational aids should be devised by the Institute itself, and not by organizations which have commercial interests in the Pacific. The Institute is expected: 1) to publish atlases of currents; navigation charts for ice conditions; charts for predicting ice

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Oceanographic Research (Cont.)

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conditions; nautical pilot charts of the Bering and Okhotsk Seas 2) to improve weather forecasting 3) to work out measures to protect vessels from destruction from organic matter (shipworms, encrustation).

Il'inskiy, O.K. A Plan for the Placement of Weather Observation Vessels in the Seas of the of the Soviet Far East 20

The article suggests a number of geographic localities giving their coordinates, in which weather observation vessels should be permanently stationed. A map is given. So far the Soviet Union relies to a large extent on services rendered in this area by foreign countries.

Dobrovolskiy, A.D. Paramount Problems in the Physical Oceanology of the Northwest Pacific 24

The area of the confluence of cold and warm currents, which is an intensive breeding zone for various types of marine life, is of particular significance for the Kurile Islands. The article enumerates immediate objectives in the study of the circulation of currents and current dynamics. The article points out that Japanese scientists have accumulated much data on the biology of this area.

Card 4/⁴/~~24~~

~~DOBROVOL'SKIY, A.B.~~

Most important problems of physical oceanography of the northwestern
Pacific Ocean. Trudy Okean. kon. 3:24-27 '58. (MIRA 11:8)
(Pacific Ocean--Oceanography)

DOBROVOL'SKIY, A.D.

First voyage of the "Vityaz'" according to the plans for the
International Geophysical Year. Mezhdunar. geofiz. god no.5:
74-77 '58. (MIRA 11:10)
(International Geophysical Year, 1957-1958)
(Pacific Ocean--Oceanographic research)

AUTHOR: Dobroyol'skiy, A.D., Doctor of Geographical Sciences, Professor, Chief during the 25th voyage of the "Vityaz'" SOV-25-58-7-18/56

TITLE: "Vityaz'" at Sea ("Vityaz'" v okeane)

PERIODICAL: Nauka i zhizn', 1958, Nr 7, pp 35 - 39 (USSR)

ABSTRACT: On 28 June 1957, the expeditionary ship of the Institut okeanologii Akadēmii nauk SSSR (Oceanological Institute of the USSR Academy of Sciences) "Vityaz'" left the port of Vladivostok and started her 25th voyage within 8 years. The route covered the part of the Pacific between logitude 154° E, New Guinea, the Philippines and Japan. The program of the expedition included investigations of circulation in the atmosphere and in the ocean and of physical, chemical and biological water properties. Special consideration was given to the study of the ocean bottom (shape, deposits and structure). In addition, the program contained fauna research and examinations of the distribution of live organisms in various parts of the Pacific, particularly in deep-water oceanic faults. Within 105 days, the "Vityaz'" covered 17,000 geographical miles. Metereological investigations were carried out by the senior scientific worker V.S. Samoy-

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"Vityaz'" at Sea

SOV-25-58-7-18/56

lenko. The Candidate of Zoological and Mineralogical Science, V.P. Petelin studied the consistency of bottom deposits. The speed of undercurrents was measured by the Candidate of Geographical Sciences, K.N. Fedorov. The Soviet ship was welcomed everywhere, except in Japan, where due to American interference, the crew was not allowed to go ashore. Five days later, only a restricted permit was granted. There are 9 photographs, 1 drawing, and 1 chart.

1. Oceanography--Pacific Ocean
2. Ocean bottom--Analysis
3. Oceans--Meteorological factors

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INST.... НАУЧНО-НИК 25-ГО РЕЙСА "ВИТЯЗЬ".

DOBROVOL'SKIY, A.D.; ARSEN'YEV, V.S.

Currents of the Bering Sea. Probl.Sev. no.3:3-9 '59.
(MIRA 13:4)

1. Institut okeanologii AN SSSR.
(Bering Sea--Ocean currents)

SOV/10-59-5-15/25

AUTHOR: Bogorov, V.G. and Dobrovolskiy, A.D.

TITLE: Oceanographic Research in North Korea

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1959, Nr 5, pp 101-103 (USSR)

ABSTRACT: The third plenary session of the International Commission on the Fishing Industry, Oceanological and Limnological Research in the western part of the Pacific Ocean took place in August 1958 in Pyongyang. The authors give neither the composition nor the aims of the Commission. A short description of the organization of scientific research is given. The study of the seas is carried out by two scientific research institutes, the Institute of the Western (Yellow) Sea in Chosan and the Institute of the Eastern (Japanese) Sea in Wonsan. The study of the sea is also carried out by the Central Meteorological Observatory in Pyongyang. All these institutions were organized with the

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Oceanographic Research in North Korea

help of the Soviet Union, especially by the Tikhookeanskiy Institut rybnogo khozyaystva i okeanografii (The Pacific Ocean Institute of the Fishing Industry and Oceanography) (TINRO). Soviet text books are also used in the institutes, namely those by N.N. Zubov, V.V. Shuleykin, V.A. Snezhinskiy, and G.R. Zhukovski (his book "Oceanography" has already been translated into Korean).

ASSOCIATION: Institut okeanologii AN SSSR (Institute of Oceanology of the AS USSR)

Card 2/2

DOBROVOL'SKIY, A.D.; IONIN, A.S.; UDINTSEV, G.B.

History of investigations in the Bering Sea. Trudy Inst. okean.
29:5-16 '59. (MIRA 12:12)
(Bering Sea--Oceanographic research)

DOBROVOL'SKIY, A.D.; LEONT'YEVA, V.V.

Fundamental data on the hydrology of Pacific trenches. Izv.
AN SSSR.Ser.geog. no.3:12-25 My-Je '60. (MIRA 13:6)

1. Institut okeanologii AN SSSR.
(Pacific Ocean--Ocean bottom)

DOBROVOL'SKIY, A.D.

Basic principles governing the organization of oceanographic research
at sea. Trudy Okean. kem. 10 no.1:3-8 '60. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet.
(Oceanographic research)

BOGOROV, V.G.; DOBROVOL'SKIY, A.D.; PETELIN, V.P.; SERGEYEV, I.V.

First expeditions of the "Vitiaz'" under the program of the
International Geophysical Year (cruises 25, 26, and 27). Trudy
Inst.okean. 40:3-22 '60. (MIRA 14:8)
(Pacific Ocean--Oceanographic research)

DOBROVOL'SKIY, A.D.; LEONT'YEVA, V.V.; KUKSA, V.I.

Characteristics of structures and water masses in western and
central parts of the Pacific Ocean. Trudy Inst.ocean. 40:47-57
'60. (MIRA 14:8)

(Pacific Ocean--Oceanography)

DOBROVOL'SKIY, A.D.

Nikolai Nikolaevich Zubov; on his 75th birthday. Vest. Mosk. un. Ser.5:
Geog. 15 no.2:60-65 Mar-Apr '60. (MIRA 13:9)
(Zubov, Nikolai Nikolaevich, 1885-)

DOBROVOL'SKIY, A., dotsent

Testing the refrigeration plant of an average-sized fishing trawler.
Khol.tekh. 37 no.3:24-28 My-Je '60. (MIRA 13:7)

1. Leningradskiy korablestroitel'nyy institut.
(Refrigeration on ships)

BARK, L.S.; GANSON, P.P.; MEYSTER, N.A.; DOBROVOL'SKIY, A.D., prof.,
otv.red.; KORKINA, A.I., tekhn.red.

[Tables of the speed of sound in sea water] Tablitsy skorosti
zvuka v morskoi vode. Moskva, Vychislitel'nyi tsentr AN SSSR,
1961. 180 p. (MIRA 14:6)
(Sound—Speed)

FOMIN, Leon Mikhaylovich; DOBROVOL'SKIY, A.D., otv.red.; TIKHOMIROVA,
S.G., tekhn.red.

[Theoretical foundations of the dynamic method and its use in
oceanology] Teoreticheskie osnovy dinamicheskogo metoda i
ego primeneniye v okeanologii. Moskva, Izd-vo Akad.nauk SSSR,
1961. 191 p. (MIRA 14:4)

(Oceanographic research)

IZHEVSKIY, Georgiy Konstantinovich; DOBROVOL'SKIY, A.D., prof., doktor
geogr. nauk, nauchnyy red.; KOSSOVA, O.N., red.; SOKOLOVA, I.A.,
tekhn. red.

[Oceanological principles relating to the fishery productivity
of seas] Okeanologicheskie osnovy formirovaniya promyslovoi
produktivnosti morei. Moskva, Pishchepromisdat, 1961. 215 p.
(MIRA 14:5)

(Marine biology)

DOBROVOLSKI, A. D., prof., d-r na geografskite nauki.

Outstanding polar explorer. Nauka i tekhnika s mladezh no.10:14-15,29 '61.

(Nansen, Fridtjof) (Explorers, Norwegian)

DOBROVOL'SKIY, A.D.; ZAVRIYEV, V.G.; KOSAREV, A.N.

Color and transparency as indicators of the presence of river waters
in the sea. Okeanologia 1 no.4:626-629 '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova,
kafedra okeanologii.

(Estuaries)

DOBROVOL'SKIY, A.D.

Enlarged session of the Aral-Caspian Section of the Oceanographic
Commission of the Academy of Sciences of the U.S.S.R., March 24,
1961. Okeanologiya 1 no.4:762-763 '61. (MIRA 14:11)
(Caspian Sea--Oceanographic research)

DOBROVOL'SKIY, A.D.

Fridtjof Nansen as oceanologist; on the one-hundredth anniversary
of his birth, Oct. 10, 1861. Okeanologiya 1 no.5:956-957 '61.
(MIRA 15:3)

(Nansen, Fridtjof, 1861-1930)

MAMAYEV, Oleg Ivanovich; FEDOROV, K.N., kand. geogr. nauk, retsenzent;
DOBROVOL'SKIY, A.D., prof., red.; VINOGRADOVA, S.S., red.;
LAZAREVA, L.V., tekhn. red.

[Zero dynamic surface of the world ocean] Nulevaia dinamicheskaia poverkhnost' Mirovogo okeana. Pod red. A.D.Dobrovol'skogo.
Moskva, Izd-vo Mosk. univ., 1962. 218 p. (MIRA 15:3)
(Ocean currents)

DOBROVOL'SKIY, A.D.; RADZIKHOVSKAYA, M.A.; LEONT'YEVA, V.V.

Deep-sea hydrologic studies of the Pacific Ocean. Trudy Inst.ocean. 60:
130-141 '62. (MIRA 17:1)

DOBROVOL'SKIY, A.D.

"Fundamentals of studying the development of sea coasts" by
V.P.Zenkovich. Okeanologia 2 no.5:950-953 '62. (MIRA 15:11)
(Coasts) (Zenkovich, V.P.)

DOBROVOL'SKIY, A. D.

N. N. Zubov and his role in the contemporary development of
oceanographic research. Vop. geog. no. 62:6-10 '63.
(MIRA 17:3)

MAMAYEV, O.I.; DOBROVOL'SKIY, A.D., prof., red.

[Oceanographic analysis in the α -S-T-p system] Okeano-
graficheskii analiz v sisteme α -S-T-p. Moskva, MGU.
1963. 228 p. (MIRA 17:6)

DOBROVOL'SKIY, Aleksey Dmitriyevich; ZALOGIN, Boris Semenovich;
POLOZHENTSEVA, T.S., mlad. red.; LYUBIMOV, I.M., red.

[Seas of the U.S.S.R.; their nature and utilization]
Moria SSSR; priroda, khoziaistvo. Moskva, Mysl', 1965.
350 p. (MIRA 18:9)

DoBrowol'skiy, A.F.

KUZNETSOV, V.I.; BLEDNYKH, A.G.; DOBROVOL'SKIY, A.F.; GENSINA, Ye.D.

Use of products of primary tar from Ukrainian brown coals for
disinfection. Zhur.mikrobiol.epid. i immun., supplement for 1956:36-37
'57 (MIRA 11:3)

(COAL-TAR PRODUCTS) (DISINFECTION AND DISINFECTANTS)

DOBROVOL'SKIY, A.G.

Bonus fund for track maintenance workers. Put' i put.
khoz. 4 no.4:11 Ap '60. (MIRA 13:7)

1. Glavnyy bukhgalter distantsii, stantsiya Slavyansk,
Donetskoy dorogi.
(Railroads--Salaries, pensions, etc.)
(Bonus system)

L 1675-66 EWP(e)/EWP(t)/EWT(m)/EWP(k)/EWP(z)/EWP(b) IJP(c) JD/WH

ACCESSION NR: AP5022545

UR/0226/65/000/009/0045/0052

AUTHOR: Dobrovolskiy, A. G.; Popichenko, E. Ya.

35
32
B

TITLE: Slip casting of titanium carbide products

SOURCE: Poroshkovaya metallurgiya, no. 9, 1965, 45-52

TOPIC TAGS: slip casting, titanium carbide, powder metal molding, castability, porosity

ABSTRACT: To determine the feasibility of employing the slip casting method to fabricate intricately shaped TiC products, the authors experimented with the slip casting of crucibles measuring 50 and 30 mm in height and 45 and 20 mm in diameter, respectively, as well as of solid specimens measuring 10 mm in diameter and 60 mm in length. Molds made of gypsum with a water-gypsum ratio of 0.9 were used for casting the TiC powder which was obtained in an electric resistance furnace by reducing TiO₂ with carbon black at 2000°C. The powder was ground in ball pulverizers and screened through a mesh with 40-µm apertures, whereupon it was re-pulverized in an ethyl alcohol medium for 40 hr, thus resulting in a spongy powder. Following preliminary experiments, the aqueous solution of carboxymethyl

Card 1/2

L 1675-66

ACCESSION NR: AP5022545

3

cellulose (CMC) was selected as the most suitable suspending medium for the TiC powder. A mixture of powdered TiC (70%) and 2.5% aqueous solution of CMC (30%) was stirred in a porcelain ball mill for 2 hr, whereupon the slip was let stand to eliminate the air bubbles and subsequently poured into the gypsum molds. The density of the resulting products is low but can be increased by raising the slip and mold temperature to 50°C. The change in pH on adding HCl and NaOH to the slip did not improve the casting properties; hence the method is simplified, as regulation of the pH value is not required. The densities of the slip-cast products are no lower than those obtained by other molding methods. Moreover, the slip casting method has the advantage of assuring an uniform packing of the particles throughout the cross section of the casting. Lastly, while the shrinkage of slip-cast products is above-average, it is uniform, and moreover their porosity is of the order of 11%. Orig. art. has: 8 figures, 2 tables.

ASSOCIATION: Institut problem materialovedeniya AN USSR (Institute for the Study of Materials AN UkrSSR)

SUBMITTED: 15Mar65

ENCL: 00

SUB CODE: MM, MT

NO REF SOV: 004

OTHER: 007

Card 2/2

DP

L 28066-66 EWP(k)/EWT(m)/EWP(e)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6015347

(A)

SOURCE CODE: UR/C226/66/000/005/0001/0008

AUTHOR: Dobrovolskiy, A. G.; Nazarchuk, N. V. 23
B

ORG: Institute of Problems of Material Science, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Slip casting of molybdenum disilicide ¹

SOURCE: Poroshkovaya metallurgiya, no. 5, 1966, 1-8

TOPIC TAGS: molybdenum disilicide, metal casting, slip casting

ABSTRACT: Slip casting of molybdenum disilicide crucibles 30-50 mm high and 20 or 45 mm in diameter, and protective thermocouple tubes 160 or 60 mm long and 25 or 10 mm in diameter has been studied. Molybdenum-disilicide powder containing 64.2% Mo, 34% Si, 0.18% Fe and 0.6% C with a particle size from less than 2 to 21 mkm was used. A slip containing over 75% particles of less than 2 mkm was prepared by grinding molybdenum disilicide powder, with distilled water used as a suspending medium. The casting properties of the water slip depended on the pH, solid-to-liquid ratio, and casting temperature. The slip had two casting ranges: at a pH of 4-5 or 9-11. The latter pH ensured better casting properties and higher density: up to 3.76 g/cm³ as compared to 3.38 g/cm³ for pH = 4-5. The

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L 28066-66

ACC NR: AP6015347

density of the slip increased as the solid-to-liquid ratio increased up to 75:25, and then sharply dropped. Increasing the casting temperature to 45C increased the solidification rate and the thickness of casting wall. Castings sintered in a hydrogen atmosphere at 1600-1650C for 2 hr had a density of 5.5 g/cm³, which corresponds to about 8% porosity. Orig. art. has: 8 figures. [AX]

SUB CODE: 11, 13/ SUBM DATE: 22Jun65/ ORIG REF: 005/ OTH REF: 002/ ATD PRESS: 4261

Card 2/2 *CV*

L 44221-66 EWP(e)/EWT(m)/EWP(t)/ETI/EWP(k) IJP(c) JD/AM/JG

ACC NR: AP6019751

SOURCE CODE: UR/0131/66/000/006/0055/0059

AUTHOR: Samsonov, G. V.; Dobrovolskiy, A. G.

45

ORG: Institute of Problems of the Science of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

B

TITLE: Some problems concerning the technology of producing articles from silicon nitride

27

SOURCE: ²⁷Ogneupory, no. 6, 1966, 55-59

TOPIC TAGS: silicon nitride, silicon compound, fabricated structural metal, structural hardware

ABSTRACT: A comparison has been made of two methods for manufacturing silicon-nitride articles. In the first method, silicon powder is compacted into desired articles which are then sintered in nitrogen in two stages: first at 1250C and then at 1400-1600C. This method is economical since no expensive silicon nitride is used. However, only thin articles can be made by this method. In articles 25 mm thick, inclusions of pure silicon as large as 25 mm² were found. Heavy articles are made from silicon-nitride powder. However, the silicon-nitride powder is "hard-to-compact" and needs a plasticizer. Synthetic rubber dissolved in gasoline was found to be the most satisfactory plasticizer. Both methods yield sufficiently dense and strong articles. Some articles can be made by slip casting. Tubular articles are success-

16

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UDC: 666.76:661.55

L 44221-66

ACC NR: AP6019751

fully made by the extrusion of plasticized silicon nitride powder. Generally, the strength of the silicon nitride articles does not depend on the method of manufacturing so much as on the temperature and duration of sintering. Orig. art. has: 4 figures. [FM]

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 003

Card 2/2 *MT*

DOBROVOL'SKIY, A.K., kand.tekhn.nauk

Selecting a technological version for securing the interchangeability of round joints. Nauch.dokl.vys.shkoly; mash.i prib. no.2:127-129 '58. (MIRA 12:10)

1. Predstavleno Moskovskim vysshim tekhnicheskim uchilishchem im. Baumana.

(Interchangeable mechanisms)

L 26120-66 EWT(m)/ETC(1)/EWG(m)/EWP(m) AT/NH/WW/JD/JG

ACC NR: AP6015070

SOURCE CODE: UR/0363/66/002/005/0864/0869

AUTHOR: ~~Dobrovolskiy, A. G.~~ Dobrovolskiy, G. G.; Lyudvinskaya, T. A.; Popichenko, E. Ya.

ORG: Institute of Materials Technology, Academy of Sciences SSSR (Institut problem materialovedeniya Akademii nauk SSSR)

32
B

TITLE: Slip casting of zirconium boride

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 5, 1966, 864-869

TOPIC TAGS: high temperature ceramic product, zirconium boride, ceramic technology, slip casting

ABSTRACT: Slip casting of profiled zirconium boride products (crucibles, thermocouple sheathes) has been studied as a more convenient and more economic method of producing complex forms than conventional compression molding. The importance of ZrB_2 is stressed for high-temperature technology. Preparation of gypsum molds, of zirconium carbide powder and slip for casting, the slip casting procedure and sintering of cast ZrB_2 products were described. The optimum slip composition was found to be 78% solids and 22% liquid phase and the optimum liquid phase was a 3% aqueous solution of carboxymethylcellulose. These compositions were the most stable of all studied and

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UDC: 546.831'27

L 26120-66

ACC NR: AP6015070

the cast products prepared from them had a maximum density and did not crack subsequently. Stability of the slip was increased by preliminary straining of the liquid phase through a sieve. Change of pH of the slip was without effect on the casting. Increasing the temperature of the slip or mold up to 50C did not affect density of the cast product and tended to produce blow holes. Density of the slip cast products was of the same order as in other molding processes, but slip casting was favored over other methods in respect to uniform distribution of particles in the product. The slip cast products, e.g., crucibles 80 x 60 mm and thermocouple sheathes 250 x 30 mm, displayed considerable shrinkage on sintering at 2200C and increase in density to 5.4 g/cm³, which corresponded to a 12% residual porosity. Orig. art. has: 6 figures. [JK]

SUB CODE: 13/ SUBM DATE: 24May65/ ORIG REF: 007/ OTH REF: 002
ATD PRESS: 4252

Card 2/2 CC

25(1)

PHASE I BOOK EXPLOITATION

SOV/2098

Moscow. Vyssheye tekhnicheskoye uchilishche imeni N.E. Baumana

Nekotoryye novyye voprosy shtampovki tochnykh detaley; [sbornik statey] (Some New Problems in Stamping Precision Parts; Collection of Articles) Moscow, Oborongiz, 1959. 110 p. (Series: Its: [Trudy] 85) Errata slip inserted. 4,700 copies printed.

Ed.: E.A. Satelya, Honored Worker in Science and Technology, Doctor of Technical Sciences, Professor; Ed. of Publishing House: P.B. Morozova; Tech. Ed.: N.A. Pukhlikova; Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This collection of articles is intended for industrial workers in precision stamping and for teachers and students in this or related fields.

COVERAGE: The collection covers problems of stamping thin-walled and low-rigidity sheet products, obtaining rigid "recrystallized" joints, forming square and cylindrical blanks in closed dies,

Card 1/5

Some New Problems in Stamping Precision Parts (Cont.) SOV/2098

and accuracy and finish in cold extruding. Problems of ultrasonic machining of carbide-alloy materials are also discussed. The articles represent some of the studies carried out in recent years at the Department of Technology of the MVTU (Moscow Higher Technical School) imeni Bauman on methods of stamping precision machine parts. No personalities are mentioned. Some of the articles are followed by references.

TABLE OF CONTENTS:

Foreword 3

Butuzov, E.A., Candidate of Technical Sciences, Docent. Operation of Rubber Bolsters in Rubber Forming 5

The article is devoted to an explanation of conditions causing nonuniformity in rubber pressure during forming of their walled parts. Practical advice is given for the use of rubber bolsters in forming not only aluminum but also other metals.

Butuzov, E.A., Candidate of Technical Sciences, Docent. Use of the Method of "Recrystallized" Rigid Joints in Manufacturing Large

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Some New Problems in Stamping Precision Parts (Cont.) SOV/2098

Thin-walled Machine Parts

22

The problems of obtaining rigid joints by cold pressure welding are examined. The method is used in making large parts from thin sheets.

Alferov, V.V., Candidate of Technical Sciences, Docent. Determination of the Mechanical Characteristics of Thin-walled Cylindrical Shells

27

The problem of determining the mechanical characteristics of samples cut out of formed shells is discussed. These characteristics differ from characteristics of samples cut out of sheets of the same material.

Minkevich, D.I., Candidate of Technical Sciences. Investigation of the Kinematics of Metal Flow During Forming of Parts of the Plate and Sleeve Types in Closed Dies

35

The process of making cylindrical blanks from square ones and then pressing the final product in closed dies is described and analyzed.

Card 3/ 5

Some New Problems in Stamping Precision Parts (Cont.) SOV/2098

Minkevich, D.I., Candidate of Technical Sciences. Effect of Various Factors on Forming Forces and Accuracy of Cold Pressing in Closed Dies 55

A method for calculating deformation forces during forming of square blanks into cylindrical shape is presented and experiments are described. An investigation showed the variation of unit pressure with thickness of the initial blank, coefficient of external friction, magnitude of flash and properties of deformed metal in accordance with formulas derived.

Dobrovol'skiy, A.K., Candidate of Technical Sciences, and Yu.Ye. Zakharov, Engineer. Determining Deformation of Ring-type Parts 68

The author discusses methods of calculating deformation of nonrigid rings as well as the shape of the deformed rings under various supporting and loading conditions. There are examples of means of compensating deviations of shape resulting during manufacture.

Goryachev, N.S., Engineer. Use of Ultrasonics in Machining Die Parts 92

The principles of ultrasonic machining, the tool, and its

Card 4/5

Some New Problems in Stamping Precision Parts (Cont.) SOV/2098

wear are discussed. Machines of Soviet make are described.

AVAILABLE: Library of Congress

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8-17-59

L 62709-65 EFF(c)/EPA(s)-2/EMA(h)/ENP(j)/ENP(k)/ENT(d)/ENT(l)/ENT(m)/ENP(h)/T/
 ENP(l)/EMA(d)/ENP(w)/ENP(v) Po-4/Pf-4/Pr-4/Ps-4/Pt-7/Pe6 EN/EM/AM/JD
 UR/0286/65/006/012/0065/0066
 ACCESSION NR: AP5019030 666.189 22.002.5 104
 8

AUTHOR: Gavrilov, I. K.; Filippov, D. A.; Strukov, V. M.; Blatov, V. S.; Shalimov,
A. S.; Vul, N. I.; Ivanov, A. M.; Belyakov, V. V.; Frolov, R. A.; Khantsis, R. Z.;
Andriyevskaya, G. D.; Zelenskiy, E. S.; Kuperman, A. M.; Dobrovolskiy, A. K.;
Dzhereliyevskiy, V. K.

TITLE: Winding machine. Class 32, No. 172009¹⁵

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 65-66

TOPIC TAGS: glass reinforced plastic, plastic filament, fiber glass, filament
winding, winding machine, filament wound article

ABSTRACT: This Author Certificate introduces a machine for fabrication of glass-
 reinforced plastic articles by filament winding. The machine includes a drive with
 a reductor and a mandrel mounted on a rotating shaft. To fabricate spherical shapes
 the machine is equipped with profiled guides transmitting to the mandrel a tilting
 motion around the vertical axis simultaneously with a rotation around the axis (see
 Fig. 1 of the Enclosure). Orig. art. has: 1 figure. [ND]

Card 1/2

L 62709-65

ACCESSION NR: AP5019030

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike SSSR
(Organization of the State Committee on Aviation Engineering, SSSR) *44.55*

SUBMITTED: 19May64

ENCL: 01

SUB CODE: MT, 1E

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4064

Card 2/3

DOBROVOL'SKIY, A.K., kand.tekhn.nauk, dotsent; TYUKOV, A.N.

Investigating the geometry of large cylindrical parts. Izv.vys.
ucheb.zav.; mashinostr. no.7:40-52 '60. (MIRA 13:11)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baubana.
(Shop mathematics)

1. DOBROVOL'SKIY, A. N.
2. USSR (600)
4. Grapes
7. Selecting the environment for the sprouting of grapevine pollen, Agrobiologia No. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

SOV/86-58-11-22/37

AUTHOR: Dobrovol'skiy, A.P., Engineer Capt

TITLE: Repair of Aircraft Assemblies (Vosstanovleniye samoletnykh agregatov)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 11, pp 67-70 (USSR)

ABSTRACT: The author describes the following problems and the solutions made at his base, located in Central Asia. (1) Due to the rigorous climate and dust in Central Asia, aircraft parts corrode and the aircraft air system picks up dirt, causing parts and rubber packings to wear out. In order to facilitate repairs, chrome-plating of all cylinders in front bombers was started in the base. This proved to be successful, and now there are reasons to believe that the chrome-plated cylinders will remain serviceable through 100 flying hours and up to the general overhaul. Some units have been using chrome-plated shock-absorber cylinders in fighters, too. For several years, the author's base has been repairing the shock-absorber cylinders of the main and nose legs of landing gears by grinding and honing. Only the cylinder rods and the outside zones of the nose-leg cylinders have been chromeplated. The pits up to 0.6-0.8 mm deep on the inside surface of the shock-absorber cylinders have been ground up to 1 mm deep, retaining, however, the thickness of the wall within the tolerance. The remaining traces of pitting have been treated with cadmium cyanide or zinc, and then honed. After grinding the inside surface up to 0.5 mm or more, bushings, rings, and centering cams have

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Repair of Aircraft Assemblies

SOV/86-58-11-22/37

been used to obtain the necessary plays. (2) In faultily assembled hydraulic pressure accumulators, the piston touches the cylinder surface and then scratches appear. The diameter measured at the bottom of the circumferential groove, containing the rubber ring, should measure $134.7^{+0.1}$ mm but in parts supplied by manufacturers it too frequently measures 134.3 mm or less; also in some pistons the excentricity reaches 0.5 or more. Under these conditions, the requirement that the rubber ring should protrude 0.2mm makes no sense. The cylinder and piston of the hydraulic pressure accumulator are ground. Pistons with longitudinal scratches are chrome plated after being processed. Pistons with diameters falling below the nominal figure are rejected. (3) In the cylinders which retract the main legs of the landing gear, corrosion attacks the lower part of the inner surface. After processing, the correct dimension is obtained by chrome plating. Also, cylinders touch the pistons because, usually, a tolerance limit is not held to by the manufacturer and this causes slackness. It results in a beating movement of the order of 0.4-0.6 mm. Also, the faulty assembling of the packing unit causes leakage, scratches, spoiling of parts, etc. Correct assembly extends the life of the cylinders and facilitates their repair. (4) The grinding and honing of closed-type cylinders is a labor-consuming and complex operation, especially since the cylinder cannot be adjusted by means of an indicator (when working on an internal grinding

Card 2/3

Repair of Aircraft Assemblies

SOV/86-58-11-22/37

and honing machine tool). By modernizing some machine tools used and by producing the needed fastening, honing and checking devices "we succeeded in organizing failureless and high-quality processing of cylinders." Four drawings.

Card 3/3

DOBROVOL'SKIY, A.P.

Prospects for the simultaneous preparation of fresh water and ice on ships. Trudy LKI no.29:161-163 '59. (MIRA 14:7)

1. Leningradskiy korablestroitel'nyy institut, kafedra sudovykh parovykh mashin i vspomogatel'nykh mekhanizmov.
(Sea water, Distillation of) (Ice--Manufacture)

DOBROVOL'SKIY, A.P., kand. tekhn. nauk

Designing insulating elements of corrugated bulkheads.
Sudostroenie 26 no.2:12-15 (208) Feb '60. (MIRA 14:11)
(Bulkheads (Naval architecture))
(Insulation (Heat))

GOLYAND, Mikhail Markovich; DOBROVOL'SKIY, A.P., dotsent, kand.tekhn.
nauk, nauchnyy red.; DOLMATOV, P.S., vedushchiy red.;
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Calculations and tests of heat insulation] Raschety i ispytenie
teplovoy izolyatsii. Leningrad, Gos.nauchno-tekhn.isd-vo neft.
i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1961. 313 p.

(MIRA 14:4)

(Insulation (Heat))

DOBROVOL'SKIY, A.P., kand.tekhn.nauk

History of the development of refrigeration of ships. Khol.
tekh. 38 no.2:44-46 Mr-Ap '61. (MIRA 14:3)

1. Leningradskiy korablestroitel'nyy institut.
(Refrigeration on ships)

DOBROVOL'SKIY, Aleksandr Petrovich; ROZENFEL'D, L.M., doktor tekhn. nauk,
prof., reŕsenzentsent; SMIRNOV, A.I., inzh., reŕsenzentsent; SELIVANOV,
K.I., nauchnyy red.; OZEROVA, Z.V., red.; TŠAL, R.K., tekhn. red.

[Refrigerating installations on ships] Sudovye kholodil'nye
ustanovki. Leningrad, Sudpromgiz, 1962. 390 p. (MIRA 15:5)
(Refrigeration on ships)

DOBROVOL'SKIY, A.P., kand.tekhn.nauk

"Ejector-type refrigerating machinery" by M.G.Shumelishskii.
Reviewed by A.P.Dobrovol'skii. Sudostroenie 28 no.3:73 Mr
'62.

(Refrigeration on ships) (Shumelishskii, M. G.)

(MIRA 15:4)

~~DOBROVOL'SKIY, A.P.,~~ kand. tekhn. nauk; SERDAKOV, G.S., kand. tekhn.
nauk

Investigating the forces of ice adhesion to steel in freezing.
Khol. tekhn. 39 no.5:15-16 S-0 '62. (MIRA 16:7)

1. Leningradskiy korablestroitel'nyy institut (for Dobrovol'skiy).
2. Leningradskiy tekhnologicheskii institut kholodil'noy promyshlennosti (for Serdakov).
(Refrigeration and refrigerating machinery--Research)

DOBROVOL'SKIY, A.P., kand.tekhn.nauk

New requirements for the design, construction and testing of ship
refrigerating equipment. Khol.tekh. 42 no.2:1-3 Mr-Ap '65.

(MIRA 18:5)

1. Leningradskiy korablestroitel'nyy institut.

27301-66

ACC NR: AM6000593

Monograph

Dobrovolskiy, Aleksandr Petrovich

UR/

19
B+1

Thermotechnical testing of refrigerating units on ships (Teplotekhnicheskkiye ispytaniya sudovykh kholodil'nykh ustanovok). Leningrad, Izd-vo "Sudostroyeniye," 1965. 290 p. illus., biblio., tables. 2800 copies printed.

TOPIC TAGS: refrigeration, refrigeration system, refrigeration equipment, refrigeration engineering, marine refrigerating equipment, marine equipment

PURPOSE AND COVERAGE: This book is intended for technical personnel concerned with experimental investigation of marine refrigerating plants. It may be used by refrigeration test specialists in stationary plant experimentation and may also be useful for students in shipbuilding and other schools of higher education specializing in refrigerating equipment design. Methods for experimental investigation of marine refrigerating plants, compression systems, and cold-room insulation are considered. The basic principles of the theory of refrigerating plants are briefly outlined and the experimental apparatus is described. The book also contains instructions for selecting the instruments, their layout, the accuracy of measurements of the flow rate and different parameters

Card 1/3

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UDC: 621.12.011.516.001.2

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ACC NR: AM5000593

of the refrigerants, heat-transfer agents and water. Particular attention is given to the method of electrothermal analogies which is often used for determining the thermal properties of different insulation models. Examples of test procedures and results of experimental investigations are given as illustrative examples.

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- Ch. I. Fundamentals of the theory of compressor type refrigerating units -- 5
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- Ch. IV. Temperature measurements -- 63
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- Ch. VI. Rate-of-flow measurements -- 99

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ACC NR: AM6000593

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- Ch. VIII. Determination of power input for marine refrigerating plants -- 150
- Ch. IX. Methods for determining refrigerating capacity and heat balance of a refrigerating plant -- 164
- Ch. X. Determination of technical and useful characteristics of refrigerating plants -- 180
- Ch. XI. Insulation test of marine cooling rooms -- 194
- Ch. XII. Examples of experimental investigations -- 221
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- Bibliography -- 288

SUB CODE: 13/

SUBM DATE: 09Apr65/ ORIG REF: 054

Card 3/3 CC

DOBROVOL'SKIY, A.P., kand. tekhn. nauk; IONOV, A.G., inzh.

Reviews. Sudostroenie 30 no.7:72-74 31 '64. (MIRA 18:9)

DOBROVOL'SKIY Aleksandr Petrovich; KURYLEV, Ye.S., kand. tekhn.
nauk, dots., nauchn. red.; TURANDINA, L.A., red.

[Thermotechnical testing of marine refrigerating
machinery] Teplotekhnicheskie ispytaniia sudovykh kho-
lodil'nykh ustanovok. Leningrad, Sudostroenie, 1965.
290 p.
(MIRA 18:12)

DOBROVOL'SKIY, A.S. and ALEKSANDROV, S.

Aerophototopography. Gosvoenizdat (1939)

POCHTOVIK, G. Ya., inzh.; ~~DOBROVOL'SKIY, A.S.~~, student; LITVIN, F.N.,
student; GOMOROV, V.G., student.

Using precast reinforced keramsit-concrete slabs in constructing
bridge floors. Avt. dor. 23 no.4:14-16. Ap '60. (MIRA 13:6)
(Bridges, Concrete)

DOBROVOL'SKIY, A.S.

Using the ultrasonic impulse method to study elastic (dynamic)
characteristics of asbestos cement. Trudy NIIAsbesttsementa
no.16:90-107 '63. (MIRA 16:8)
(Asbestos cement) (Ultrasonic waves--Industrial applications)